## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

WATANABE, Kenichi

Appl. No.:

NEW

Group:

Filed:

September 10, 2003

Examiner:

For:

COMMUNICATION APPARATUS

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 September 10, 2003

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

## LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

## II. COPIES

- a. This application was filed before June 30, 2003. Accordingly, submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. Maintenance This application was filed on or after June 30, 2003. Accordingly, copies of cited US patents and patent application publications therefore are not included. Copies of foreign patent documents and non-patent literature are included.

|      |    |             | 2001.00 1101 2211 10202  |
|------|----|-------------|--|
|      | c. |             | This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned. |
| III. |    |             | <u>XPLANATION OF THE RELEVANCE</u><br>least one box)   |
|      | a. |             | DOCUMENTS IN THE ENGLISH LANGUAGE  |
|      |    |             | The patents, publications, or other information listed on the attached PTO 1449 are in the English language and therefore, do not require a statement of relevancy.  |
|      | b. | $\boxtimes$ | DOCUMENTS NOT IN THE ENGLISH LANGUAGE  |
|      |    |             | A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:  |
|      |    |             | The relevancy of the Japanese language documents can be determined by a review of the English language Abstracts attached hereto.  |
|      | c. |             | ENGLISH LANGUAGE SEARCH REPORT   |
|      |    |             | An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).  |
|      | d. |             | OTHER  |
|      |    |             |  |

The following additional information is provided for the Examiner's consideration.

## FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By Terrell C. Birch, #19,382

TCB/tmr 1247-0520P P.O. Box 747 Falls Church, VA 22040-0747 (703) 205-8000

| Attachment(s): 🛛 | Form PTO-1449(s)      |
|------------------|-----------------------|
| $\boxtimes$      | Documents             |
|                  | Foreign Search Report |
|                  | Fee                   |
|                  | Other:                |

(Rev. 08/14/03)

| INFORMATION DISCLOSURE CITATION IN AN APPLICATION IN   | 1247-0520P   NEW   |                     |   |                           |               |                           |                                | Sheet        | : 1 of       | 1 (9   | 9/10/0             |
|--|--|---------------------|---|---------------------------|---------------|---------------------------|--------------------------------|--------------|--------------|--|--------------------|
| TIN AN APPLICATION   | TN AN APPLICATION  | Form P              | TO-1449                                 |                           |               |                           |                                |              |              | ION NO.  |                    |
| September 10, 2003   | U.S. PATENT DOCUMENTS   CAMES   CAME |                     | INFORMA                                 |                           |               |                           |                                | ichi         | <b>1</b>     |  |                    |
| DOCUMENT NUMBER   Kind   DATE   NAME   CAMS   SUBSTITUTE   | DOCUMENT NUMBER   Kind   DATE   NAME   CLASS   SUB   TILING BATE   |                     | (1                                      | Use several sheets        | if necessa    | ry)                       |                                | 2003         | GROUP        |  |                    |
| US 4,759,056   | US 4,759,056   |                     |   |                           | U             | .S. PATENT D              | OCUMENTS                       |              |              |  |                    |
| US 4,961,217   | US 4,961,217   | EXAMINER<br>INITIAL | DOCU                                    | MENT NUMBER               | Kind          | DATE                      | NAME                           | CLASS        | CLASS        | PILIN<br>IF APP                                  | G DATE<br>SOPRIATE |
| US 5,153,906   | US 5,153,906   |                     | US                                      | 4,759,056                 | <b> </b>      | 1988-07-19                | Akiyama                        |              | 1            |  |                    |
| US 5,440,625   | US 5,440,625   |                     | US                                      | 4,961,217                 |               | 1990-10-02                | Akiyama                        | 1            | <b>†</b>     | <u> </u>   |                    |
| US 5,524,049   | US 5,524,049   |                     | US                                      | 5,153,906                 | A             | 1992-10-06                | Akiyana                        |              | <b></b>      | <del>                                     </del> |                    |
| US 6,075,983   A 2000-06-13   Kumagai   US   US   US   US   US   US   US   U   | US 6,075,983   A 2000-06-13   Kumagai   US   US   US   US   US   US   US   U   |                     | US                                      | 5,440,625                 | A             | 1995-08-08                | Akiyama                        |              |              | <u> </u>   |                    |
| US US US US US  US  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS  Office DOCUMENT NUMBER  JP 2000-330904 A 2000-11-30 JP ABS JP 10-283292 A 1998-10-23 JP ABS JP 10-51349 A 1998-02-20 JP ABS JP 8-97852 A 1996-04-12 JP ABS JP 8-84197 A 1996-03-26 JP ABS JP 1-137767 A 1996-03-26 JP ABS JP 1-137767 A 1989-05-30 JP ABS JP 63-108849 A 1988-05-13 JP ABS JP 63-108849 A 1988-05-13 JP ABS JP 60-116259 A 1985-06-22 JP ABS   | US   |                     | US                                      | 5,524,049                 | A             | 1996-06-04                | Akiyama                        | 1            |              |  |                    |
| US   | US   |                     | US                                      | 6,075,983                 | A             | 2000-06-13                | Kumagai                        | 1-           | <b></b>      |  |                    |
| US  US  FOREIGN PATENT DOCUMENTS  FOREIGN PATENT DOCUMENTS    Office   DOCUMENT   Kind   DATE   COUNTRY   CLASS   STOREM   TRANSLATION   VISC   SOLAMS   VISC   TRANSLATION   VISC   SOLAMS   VISC   | US   |                     | Ţ                                       | JS                        |               |                           |                                | 1            |              | <b>†</b>   |                    |
| US   | Office   DOCUMENTS   CLASS   |                     | ī                                       | JS                        |               |                           |                                |              |              |  |                    |
| FOREIGN PATENT DOCUMENTS   CAASS   C   | FOREIGN PATENT DOCUMENTS   |                     | 1                                       | JS                        |               |                           |                                | _            |              |  |                    |
| Office   DOCUMENT NUMBER   Kind   DATE   COUNTRY   CLASS   CLASS   TRANSLATION   TWO   T   | Office   DOCUMENT   Kind   DATE   COUNTRY   CLASS   SUB   TRANSLATION  |                     | Ī                                       | JS                        |               |                           |                                |              |              |  |                    |
| NUMBER   N   | NUMBER   N |                     |   |                           | FOR           | REIGN PATENT              | DOCUMENTS                      |              |              |  |                    |
| JP         2000-330904         A         2000-11-30         JP         ABS           JP         10-283292         A         1998-10-23         JP         ABS           JP         10-51349         A         1998-02-20         JP         ABS           JP         8-97852         A         1996-04-12         JP         ABS           JP         8-84197         A         1996-03-26         JP         ABS           JP         1-137767         A         1998-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS  | JP   2000-330904   A   2000-11-30   JP   ABS     JP   10-283292   A   1998-10-23   JP   ABS     JP   10-51349   A   1998-02-20   JP   ABS     JP   8-97852   A   1996-04-12   JP   ABS     JP   8-84197   A   1996-03-26   JP   ABS     JP   1-137767   A   1989-05-30   JP   ABS     JP   63-108849   A   1988-05-13   JP   ABS     JP   60-116259   A   1985-06-22   JP   ABS     JP   60-116259   A   1985-06-22   JP   ABS     JP   COUMENTS (Include Name of the author (in CMPIN), LUITERS), (Libs of the article (when appropriate), title of the inter-  |                     | Office                                  |                           | Kind          | DATE                      | COUNTRY                        | CLASS        | SUB<br>CLASS | 1 -  |                    |
| JP         10-283292         A         1998-10-23         JP         ABS           JP         10-51349         A         1998-02-20         JP         ABS           JP         8-97852         A         1996-04-12         JP         ABS           JP         8-84197         A         1996-03-26         JP         ABS           JP         1-137767         A         1989-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS   | JP   10-283292   |                     | - TD                                    |                           |               | 2000 11 20                |                                | 4            |              |  | NO                 |
| JP         10-51349         A         1998-02-20         JP         ABS           JP         8-97852         A         1996-04-12         JP         ABS           JP         8-84197         A         1996-03-26         JP         ABS           JP         1-137767         A         1989-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS  | JP   10-51349   A   1998-02-20   JP   ABS     JP   8-97852   A   1996-04-12   JP   ABS     JP   8-84197   A   1996-03-26   JP   ABS     JP   1-137767   A   1999-05-30   JP   ABS     JP   63-108849   A   1988-05-13   JP   ABS     JP   60-116259   A   1985-06-22   JP   ABS     JP   60-116259   A   1985-06-22   JP   ABS     OTHER DOCUMENTS (Include Name of the author (in CMTINL INTERS), (tills of the article (Prime appropriate), tills of the item (Deck, augustus)   |                     |   |                           |               |                           |                                |              | <b> </b>     |  |                    |
| JP         8-97852         A         1996-04-12         JP         ABS           JP         8-84197         A         1996-03-26         JP         ABS           JP         1-137767         A         1989-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS  | JP   8-97852   A   1996-04-12   JP   ABS     JP   8-84197   A   1996-03-26   JP   ABS     JP   1-137767   A   1989-05-30   JP   ABS     JP   63-108849   A   1988-05-13   JP   ABS     JP   60-116259   A   1985-06-22   ABS     JP   60-116259   A   1985-06-22   ABS     JP   60-116259   A   1985-06-22   ABS  |                     |   |                           |               |                           |                                |              | <u> </u>     |  | ļ                  |
| JP     8-84197     A     1996-03-26     JP     ABS       JP     1-137767     A     1989-05-30     JP     ABS       JP     63-108849     A     1988-05-13     JP     ABS       JP     60-116259     A     1985-06-22     JP     ABS   | JP 8-84197 A 1996-03-26 JP ABS JP 1-137767 A 1989-05-30 JP ABS JP 63-108849 A 1988-05-13 JP ABS JP 60-116259 A 1985-06-22 JP ABS  OTHER DOCUMENTS (Include Name of the author (in CMTIN LETTING), tills of the article (when appropriate), tills of the ince Deep, appearing   |                     |   |                           |               |                           |                                |              |              |  |                    |
| JP         1-137767         A         1989-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS  | JP         1-137767         A         1989-05-30         JP         ABS           JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS           OTHER DOCUMENTS (tackleds Mess of the subtor (in CMFIA) LNTRIS), titls of the article (when appropriate), titls of the item (book, appeals)  |                     |   |                           |               |                           |                                | -            |              |  |                    |
| JP         63-108849         A         1988-05-13         JP         ABS           JP         60-116259         A         1985-06-22         JP         ABS  | JP   63-108849   A   1988-05-13   JP   ABS   JP   60-116259   A   1985-06-22   JF   ABS  |                     |   |                           |               |                           |                                |              |              |  |                    |
| JP 60-116259 A 1985-06-22 JP ABS   | JP 60-116259 A 1985-06-22 JF ABS  OTHER DOCUMENTS (tackade Mess of the sutter (in CMFTA) LHTTERS), titls of the article (when appropriate), titls of the ices (book, magnetic  |                     |   |                           |               |                           |                                | 4            | L            |  |                    |
|  | OTHER DOCUMENTS (Include Name of the author (in CMYTAL LETTERS), title of the article (when appropriate), title of the ices (book, suggests  |                     |   |                           |               |                           |                                |              |              |  |                    |
|  | OTHER DOCUMENTS (tacleds Ness of the suther (in CMTTAL LETTERS), title of the article (when appropriate), title of the firm (book, magazin   |                     | JP                                      | 60-116259                 | A             | 1985-06-22                | JP                             |              |              | ABS  |                    |
|  | OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazin  |                     | نــــــــــــــــــــــــــــــــــــــ |                           | <u></u>       |                           |                                |              | <u></u>      | <u> </u>   |                    |
| reserve street, supposed, currently steel, such page (a) recume amount (a) page (a), currently currently such a page (a), currently  |  |                     |   |                           |               |                           |                                |              |              |  |                    |
| The second second second sect and the second |  |                     | +                                       |                           |               |                           |                                |              |              |  |                    |
| The state of the s |  |                     |   |                           |               |                           |                                |              |              |  |                    |
| The state of the s |  |                     | †                                       |                           |               |                           |                                |              |              |  |                    |
| The state of the s |  |                     | 1                                       |                           |               |                           |                                |              |              |  |                    |
|  |  | XAMINER             |   |                           |               |                           | DATE CONSIDERED                |              |              |  |                    |
|  | XAMINER [DATE CONSIDERED   |                     |   |                           |               |                           |                                |              |              |  |                    |
|  |  | KAMINER: 1          | initial if cit                          | ation considered, whether | r or not cita | tion is in conformance wi | h M.P.E.P. 609; Draw line thro | ugh citation | if not in co | nformance  | and not            |